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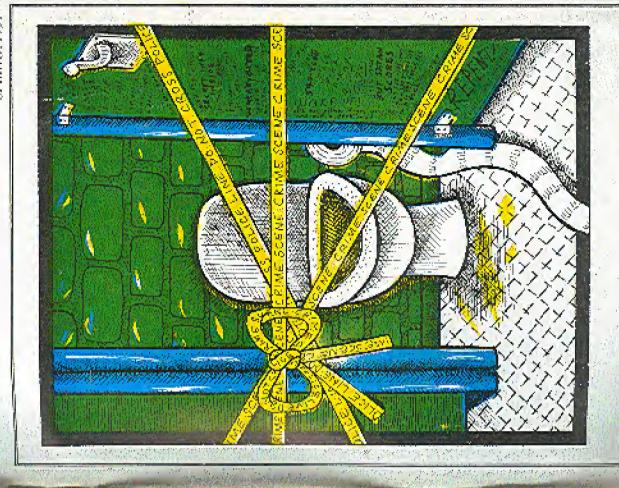
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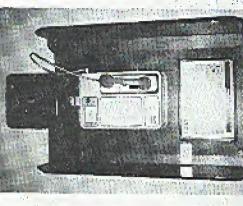
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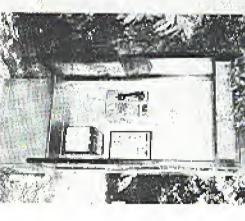
VOLUME EIGHT, NUMBER ONE

SPRING, 1991.



Middle Island, NY 11953 U.S.A. Forwarding and Address Correction Requested 2600 Magazine PO Box 752

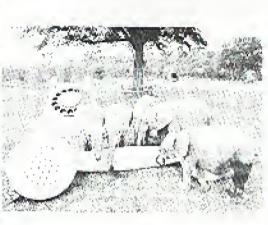




Some New Zealand payphones still accept coins but the vast majority now use the prepaid card system. You'll notice in the bottom right a 12" high "mushroom" that is actually a plastic cover for the telephone cables. You find these everywhere in New Zealand and they're extremely easy to access.

Thanks to JP of Australia





In some remote parts of the United States, you will find "non-dist payphones" that connect you to the operator as soon as you pick up. You tell them the number you're calling and they tell you how much to deposit.

Thanks to KC of the USA

In the words of our Dutch correspondent, "I don't think it's a payphone, but it looks pretty foreign."

Thanks to H of Holland

SEND YOUR PAYPHONE PHOTOS TO: 2600 PAYPHONES, PO BOX 99, MIDDLE ISLAND, NY TISSE STILL WAITING FOR AFBICAN PAYPHONES

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Shout Outs: Hackers With Attitudes, the GHP2 Collective, Watter R. our Dutch friends, Franklin, and all the true peasants.

## In Pursuit of Knowledge: An Atari 520ST Virus

by The Paracold Panda:

The accompanying being shorts a view program which make an the Aven 58050 under its CSRDOS (also be colored in CSRDOS) (also known as TOS) speculing system. It was assumed with program counter raisely produced by Caparatit using the Americka assembler produced by Caparatit using the Americka should next to the U.S. by Absent Submers, For more details about personning agreement eath, and dark the Surgary, ere depth 50 features Submers, et all, and ST Disk Delay features of the Caparating agreement (Backmann, et all), and ST Disk Delay features, a flags Take Delay and the Caparating that the caparating and the Caparating that the caparating and the Caparating that the caparating and the Caparating that the caparating t

Actions have been of basis and actions have been scattered and viruses, the interpretable of testings as a scattered being a provided studings as the object of testing as with the provided studies as the second of the object of testing and others. It is not a mineral as sugard, as going extraording and as the sugard properties of how the programming, and as the studies of the object of the o

It is important to understand the formor of constraint flavor appearing general installation in the CONTROL of Constraint I have in GRANDOS, accessible files are recognised by the file extension NVS, 17TP, and 18TO All have become a transformed TOS files and without the large transformed TOS files are GRANDOS desired graphics emissioness. TOS files are like NVS files, except that they begin with an input window affecting to the constraint in the commentation with the entered on begins. Most commentation which extensively use the (EMSIOS desired prophile constraints) which extensively use the (EMSIOS desired prophile constraints).

These executable files begin with a 28 byte program header, with the fellowing someth

60 LA - Branch around the bodder.
\*\*COMMONON: A long word (\$2 bits) which gives the

TOTAL TENTES - A long word giving the chits segment TOTAL TOTAL A long word giving the chits segment

20222222 - A long more giving the longitudine being the Block Street, Septemblicity amount of certain memory to be allocated by the operating system when the program is backet.

Additional to hong word giving the length of the tenths while.

 BESSESSINGULGEBSSSS. The many bytes commedian the operation position.

Necrosiding the operating system:

Pollowing the Andrew is the page an argument. The State functional to Andrew it with a world (S. e., 16 bits) beginning of booties of hear or \$9 decimal. After the propriate Segment content the expressor, if there is one, when the program may have writing that a stand. The symbol table, if there is one, follows the door. The symbol table, if there is one, follows the door, argument, and is added by some completes and assemble as and it is detaugating. This is generally minimize on connectably predicted sufference. At the end

of the symbol falls in the all important relocation calds, which the screen most modify to make the falls are programment, of cooking there is no shall super and or symbol table. Our relocation rathe or right behind the

Microsoftic files can be ren from any pine in the decrease. For example, if you write EMF 2004/1600, jump to a program boaster. Noticel 1004/1604, the secondary of the solution of the secondary of the secondary of the solution of those to the solution of those to the solution of the solution of the program in Local 1004. The specularity potential relocation will not the solution of the program in Local 1004. The specularity potential relocation will not solution of the program in Local 1004. The specularity of the program is the solution of the program in Local 1004.

The relocation ratio logical with a 52 bit long word giving the distance from the beganing of the plagment to the first field distance from the beganing of the plagment to the first field such that first seat or mann layers which give the first seat of the ratio are one mann layers which give the first seat of first seat of the first

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If a condition the is found, indection of that file proceeds before the psychologicache does in their work. In singuistical form, the infection of the condition file proceeds in the Science groups.

1. Opens new file to see the the tolk to securion.

2. Book in the capabilities of the program booker.
3. Modify the program booker by adding the view length to the program argument region, then copy is to the beginning of the new Eu.

6. The views assistation for the new file.
6. The program aspectation, date represent (it any), and graded faith of any of the condition file one appear to the present file.
6. The long word of the samilation factor reduction.
6. The long word of the samilation factor reduction.

table is start, the virus length added to \$1, and \$1 to copied to the new file. It is used to find the first absolute address, to which the virus length is absoluted address, to which the virus length is absoluted.

1. The integrant below fills which the are velical to the procession table of the considers file are velical to

7. The institution who including the large value of the polarization table of the condition file are rejected to the gas file officeat modification, and are caused to find the polarization and polarization and the will be released by the operating gooden on hading, and the regardingth is added in them.

9. The conditions the seal the new file are chosen. The conditions file in consect and the new file in

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The gires is assembled in program counter (PC) relating parks, with all addresses priority to the current value of the program counter, as it does not require relating to the program counter, as it does not require relating to the program of the same that addresses to the program of the same priority for priorities notice of the same injected this. Since each the relating to the counter of the same priorities of the counter of the counte

ofput length, the location of the first oce (that long most) in the releasing takes must be increased by the length of the releasing to the length of the virtual length, such a before an extending the put will remember, only constant an additional reliable to the program beginning) must have the since length added to it, these the address to the program beginning.

Note that the true can infect the seatables to 20 years made, that the east without having a relocation palet. The wires bode to see if there is a relocation table in the capitable the east of part all the relocation table and address modifications if no orbit to hand.

After the infection present completes, the jurylood moduly mans. In the outriest (triplementation, the dirty work is relatively bounder. All it does its read a 1181, the first is bettered by the module. The statement between the foreign and uninfected file it that the travelse and uninfected file it that the statement between an infected in read, work out of they have first in relative to the statement between the module of the statement of the

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MOVEL 60,00LENAMEAR : Spirt address of file source buffer.
DBRA DUSAVELOOP ; Loop until done.

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a this considerate files. Eath.

Create a new file named TEMP (scored in TEMPFLENAME)

MOVEW 90, 15P1 : Create with Fauntwinks attribute

FEA TEMPFLENAME ; Address values the name TEMPFLOS' stored

MOVEW 9590, 95P; ; function not of CREATE

TRUP 41 : Creat SEMPC (See our patient)

MOVEW 90,007 : Sove TEMP (TOTE file bands in UZ)

: Move the old file's pointer back to the beginning of the file

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Spring 1991 2600 Magazine

2600 Magazine

Spring 1991

# The Horrors of War



SOUNDS NOW YOUR SHARE

March 6, 1991

Commission (see stracked). Report John Company volumeered to withdraw our plans for range. The national contracts. After close consultation with the Federal Communications trimphone lines which required everyone to take a closer lock at non-essential telephone As you know, would create have per a serious and unexpected burden on our nation's the world's largest intercentre 1/800 call-in game.

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Once again, many chanks for contacting us at Pepsi-Colls. Flease accept the outlessed as a token of our approachation for your interiors, and we look forward to your continued. friendship for many years to could.

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Enclosure

Appelonent

Spring 1991

### The Terminus of Len Rose

myself, there was no staff, merely a editor/publisher Taran King or articles other articles for submission to be capacity as editor and publisher I used to be the editor and publisher of Phrack was acquired. Outside of the majority of the material found in published. In point of fact this is now would often receive text files and but not available in a hardcopy Phrock, a magazine similar to 2600. time to time. lancers who sent us material from loase, unorganized group of freeknown as Knight Lightning. In my format. During that time I was As many of you probably know, I by Craig Neidorf written by 00.

Terminus. To the best of my Len Rose, known to some as One such free-lance writer was

very little contact with Terminus anonymous posting feature of the >Unknown User<, adopted from the Unix and the name on the file was called "Yet Anather File on Hacking computer program actually that was article back in 1988. It was a mentality) he assumed that these quite reasonably (given the corporate organizations across the country and with major corporations and enisted over the course of the years contacted me through the Internet. and we were reintroduced when he Nevertheless, he did send Phrack an involvement with companies would not understand his Unix consultant, holding contracts However, Rose was a professional and he wanted to send us an article. He was very excited that Phrack still Prior to the end of 1985, I had Phrack.

system that defines justice in terms of how much money you can afford to spend defending yourself, took its toll. Rose's legal arguments were strong in many respects and he may very well have been able to prove his innocence it is widely believed that if he had fought the charges that Unfortunately, the pileup of multiple indictments, in a legal

events I do not have it in my except that because of last year's into more detail about that article, Phrack Pro-Phile 10, found in was no stranger to Phrack, Taran passing through UUCP. Terminus who ran his own system on UUCP Phrack's fourteenth issue. I would go King had interviewed him for electronic mail station for messages called Netsys. Netsys was a major knowledge, he was a Unix consultant

> once famous Metal Shop Private bulletin board.

against their own password files in that system managers can run them publicly available intentionally so were then and are still today cracking program. Such programs order to discover weak passwords. The file itself was a password

checks a linix system for different types of vulnerabilities. The cracker in COPS, a package that "An example is the password file was never published in Phrock. such material. As it turns out, this Bellcore Security asking about the and sent a letter to a friend at some copyright markings on the file arrived back at school a few days However, since I was logged in understand the significance of the unfamiliar with at the time. I did not on operating system I was virtually later. In the meantime I had noticed remotely I decided to let it sit until I file or why he had sent it to me. that the program was Unix-based, sort of program. From the text I saw electronic mail from Lea Rose. There University of Missouri at Columbia account on the VM mainframe on the new year, I briefly logged onto my during the first week or two of the came to January 1990. At some point legalities in having or publishing was a brief letter followed by some and saw that I had received Time passed and eventually we

decision irrelevant. On Jenuary 12, aiready decided not to publish this the University of Missouri had been our accounts on the mainframe of 1990, we discovered that all acress to file, other events soon made our Although Teran King and I had

> portion of that file: a Federal District Court judge, the unrelated to the Unix program Len January 18, 1990 I was visited by revoked without explanation. On file. Included below is the text Secret Service including the Unix my mainframe account to the U.S. obligation from a subpoens issued by the U.S. Secret Service for reasons University turned over all files from Rose had sent. That same day under

README file and this bit of mail. working on other levels of System V. System V 3.2 sites. I presume that the changes and longer to write the It took me about 10 minutes to make any competent person can get it "Here is a specialized login for

quite simple to do). Any changes I tell them to blame AT&T and not me. so if they run into something terrible AT&T Unix System V 3.2 (they'll minimal change on a 366 running them I also compiled it with a can head off any complaints, tell an AT&T 9B2 system. Just so that I made are bracketed with comments, have to fiddle with some defines, it was originally part of the part to with. As people will probably tell you, something you wish to get cought SVR3.2 sources, so it's definitely not 'It comes from original AT&T

thing if you like (it's easy of course)." Berkeier 4.3 code and do the same I will get my honds on some

intended publication of such source caught with it," and "Copyright (c) above does not evidence any actual or OF AT&T \* The copyright notice PROPRIETARY SOURCE CODE proprietary source code. Do NOT get reads: "WARNING: This is AT&T 1984 AT&T All Rights Reserved \* In the text of the program it also 130 UNPUBLISHED

either the password assigned to the 1991, p. 29-30) Communications of the ACM, March author." (Derothy Denning, author to log onto any account with explained how to create a powerful Bell Labs co-authors of Unix. and an article by Grampp and account or a password chosen by the Trojan horse that would allow its lecture, Ken Thompson, one of the Morris. Also in his ACM touring in The Cuckoo's Egy by Clifford Stoll "such programs have been published program is no serret. For example how to write a Trajan horse login later be retrieved. However, knowing saving them into a file that could capture accounts and passwords, Trojan horse program that could Rose had sent was modified to be a As it turned out the program that

on his home was another atrocity in February 1, 1990. The actual search Middletown, Maryland home on agent in U.S. v. Neidorf) at his Agent I'm Foley, who was the case States Serret Service (including Rose was raided by the United subscriber to Phrack, the authorities the added fact that Terminus was a the Unix password cracking file, and turned their attention to Len Rose. Between the Unix 3.2 source code,

sets of keys to their house — to fill a Sun Rose's personal phone book, and effects - including Army meduls, computers, documents, and personal the house. The agents seized enough another room while they searched computer consultant's wife, Sun, in bedroom for questioning and the confined Leonard Rose to his along with two Bellcore employees — "For five hours, the agents -

> ("No Kid Gloves For The Accused" Unix Today!, June 11, 1990, page 1) 14-page list in a pending court case."

consistently decied. and known LOD members have the Legion of Doom, a claim that he insisted that Rose was a member of Attorney's office in Baltimore years in prison and fines of maximum penalty he faced was 32 Act and Wire Fraud. The total cherging him with violetions of the culminated in a May 15, 1990 blacklisted by AT&T. This \$950,000. Furthermore, the U.S. indictment. There were five counts desperately needed to support damage to the house itself. Rose was 1986 Computer Fraud and Abuse Rose went into bankruptcy and was birnself and his family. Essentially, belonged to him and which he left without the computers that The agents also did serious

another long sage of bed luck for Len Rose. He had no real lawyer, he had This was just the beginning of

### 2600 Has specific details. See page 41 for meetings in New of every month from 5 pm to 8 the first Friday pur local time. York and San Francisco on

COPYGO STAN

rescuing his son during a comping addition, he suffered a broken leg no money, and he had no job. In

from the State of Illinois. It was at responsibility of defending Rose called InterActive. He had a new a company in Naperville, Illinois against the state charges. this point that attorney Sheldon T from them. Illinois State Police and temporarily. But within a week Chicago): a Unix consulting firm defended me) took on Zenner (who had successfully he was now facing criminal charges five count indictment in Baltimore, took him away. In addition to the here!?) came to Rose's new home and SSA Tim Foley (what is he doing Rose had copied Unix source code InterActive was making claims that future began to look a little brighter lawyer named Jane Macht. The (DuPage County in the suburbs of Eventually Rose found work with

piece of the action, in part perhaps to over yet. Assistant U.S. Attorney before the grand jury about Rese, have been subpostated to testify inevitable. In fact, there were possible indictment for Rose seemed defeat in U.S. v. Neidorf. A third redeem himself from his miserable William Cook in Chicago wanted a but this never took place. threats made that I personally may Rose's apin of bad luck was not

and a possible third, and he just could not find work, he was looking surviving. His wife wanted to leave running out of money and barely kept being delayed, Rose was could not take it ony longer. at two serious indictments for sure, him and take away his children, he As time passed and court dates

> strong in many respects and it is widely believed that if he had fought would eventually get his computer of 10 months, the State of Dinais offered him a deal, part of which was spend defending yourself, took its of how much money you can afford to system that defines justice in terms of multiple indictments, in a legal have been able to prove his the charges that he may very well equipment back. would drop its charges, and Kose recommendation of a prison sentence two wire fraud charges, one in Rose would agree to plead guilty to that Cook got something as well. innocence. Unfortunately, the pileup Attorney's office would offer a Beltimore, one in Chicago, The U.S. did not want to try the case and they toll. The U.S. Attorney in Baltimore Rose's legal arguments were

this decision I often spoke with Rose, upon the principles and importance of the issues, no matter what the costs. However, I was blinded by pleading with him to fight based idealism while Rose still had to face In the weeks prior to accepting

WITH TOOMS

conspiracy. In reality, it is only an injustice can the American public afford. How much of this type of of how much justice can a defendant cases of this type, it is all a question corporate power. Like many criminal example of blind justice and Secret Service and AT&T are calling people's computers. Despite this the about illegal intrusion into other and awaiting formal sentencing his case a prime exemple of a hacker United States v. Rose was not a case At this time Len Rose is still free

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carrowing my All Stong distance service.

As a loyal All long distance extense at TO No. 1 fee. I over you an enthersize for

Trained Standards because It has yet also basists inscriminal personal relate to opposing the objecting the objects and a large beauty of a processing the large training of a yet daily in Large beauty or sense parameters. 第四位的 1000mm 10000mm 1000mm 1000mm 1000mm 1000mm 10000mm 10000mm 10000mm 10000m want. I have tong been town ten it seek sed goottest kenen nested to bigs weathnoon; Missellary above "One of the past sed times in notice the political defect of an opposition." STRIFE FOR THE THE THE THE TEST THE STATE IN SEC. A SECRETARY BY THE STRIFT THE THE THE THE THE The selection of the series of the party and party and party of the selections of the selections and the selections and the selections are selected to the selection of the sele THE SECTION OF THE PROPERTY OF THE SECTION OF THE PROPERTY OF I have never but a position with AST serves, openating or subtlement from the state

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SUPPLIES NOT EXPECTED TWO WESTERNING TO BE SUPPLIED TO BE SUPPLIED. But constituty into in your long. describing of Youth to people of Arth and the operating companies an estatic behavior. fabric. The new value, was about meet to a number of allocated programmers or sugments. appeared to the part of AFT and the grown that it is no house the to are the second melocity of elected tracking participates and the considered tracking tracking of which is · BOUNDS DIE BERTHER PRESENTATION SERVICE TO THE PRESENTATION

\$78,000 value fig the \$7.1 decumpant which they admitted as also obtain be exacted for \$18 Oras Antes of copies. The inflation is consistent in thin world is a versions, in hundreds of the salating is the Len Rose (1999) at 2000, ST7 COO so the government to that a recongression for the Len Rose (1994) at 2000, ST7 COO so the government of the course of t A SPACE ASSESSE OF CONTINUE OF WINDOWS OF A SECOND PROPERTY OF THE PROPERTY OF

I Know you san anyte that the period invited should not have peak giftly it he could defend thinself using these society period is easily follow their feedom but the shore issued persons and the feedom but the specific as the bound of the second feedom and the the ratio and two breathers with the same of the same and treated while it includes the same With deliving seed to keep book increased in destroying this prisonal to even field himself

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919-755-4630. 703-351-2028 800-424-9090 202-456-6269 202-456-2343 202479-3000 202.456-2335 202456-2100 202-456-6797 202-456-2326 202-456-4974 202456-2198 202456-1414 202-450-6218 202-456-2883 703-351-7676 794-322-5170 PHONE NUMBERS SUPPLIED BY READERS JESSE HELMS PERSONNEL DEPARTMENT CENTRAL INTELLIGENCE AGENCY WHITE HOUSE FAX SUPREME COURT PERSONNEL DEPARTMENT PRESS SECRETARY CHIEF OF STAFF OFFICE OF THE VICE PRESIDENT NATIONAL SECURITY COUNCIL EXCERMIN OF PRESIDENTIAL SPEECHES FIRST LADY'S DAILY SCHEDULE PRESIDENT'S DAILY SCHEDULE WHITE HOUSE OPERATOR VICE PRESIDENT'S FAX

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We've been getting pretty sick of this smug bragging that's been passed all over the place. Keeping people out in a controlled · 3919 Trust Way · Haymand CA 91515

environment is easy. We'd like to issue a challenge of our own. I

these products are so secure, then distributing a list of those

companies that now use them should cause no problem

whatsoever. How about it?

life as usual. when they call 911. In other words, having their numbers displayed are probably quite used to not don't live in an Enhanced 911 area who choose All Call Blocking who as soon as you call 911. So people emergency services that don't have displays your number and address Enhanced 911, the service that will only be used by those displayed. In actuality, Caller ID because the phone number won't be

This kind of arm twisting and

Identifying Callers

pamphlet says. Contel doesn't allow prevent you from reaching call them. "All Call Blocking may have no way to unblock," their tittle residential customers because you other people's phones when you number from being displayed on Blocking permanently blocks your before placing a call), All Call scent to be trying to convince (where customers dial \*67 or 1167 Blocking, Unlike Per Call Blocking They have one option that they everyone not to get: All Call Caller ID services to its customers. Vegas, recently started offering independent phone company of Las spread. Centel, the Caller ID mania continues to local reason enough for consumers to be being rammed down our throats is have a convenient means to do so. continue misusing telephone service angrily, "Those who want to besitani. The ferror with which Caller ID is through harassing calls still will have their numbers identified, Bell spokesman Spero Canton said whether the caller wanted it or not. Southern Bell wanted everyone to blocking had to be offcred mission's unanimous reling that call Florida Public Service Comover since Caller ID first appeared Bell expressed outrage over the on the horizon. Recently, Southern fact distortion has been apparent

## Person Identification

energy-detection circuit, and clock generator". combine it with a four-pole bandpass filter, input buffer, from a standard modern, and frequency-shift key demodulator based design tools "to take a article says Sierra will use its cellwill be available for about \$2 cach converts it to display the calling in high volumes. The February 18 SCI1210/11211 Caller-ID chip and number. It's known as the the first and second ring and sent by the phone company between services. The chip uses the signal analog front-end chip for Caller ID conductor Corp. is designing an Engineering Times, Sicira Semi-According 6 Electronic

ambulances and emergency vehicles

customers into believing that All possible. They also mislead their technical reason why this isn't decision but we know there's no Blocking, They don't explain this businesses to subscribe to All Call

Blocking will

deley

of this chip could signal the start of It's predicted that the small size

that might well be considered possibilities of PCNs (Personal identifying the person regardless of lost because of a concern on privacy Communications Networks) were be a shame if the technological CA was quoted as saying, "It would Action Consulting Inc. of Palo Alto. Ken Kretchmer, principal analysi as the location they're calling from. a trend toward Caller ID actually

inconvenient. Or maybe, just a little too

## Credit Release

order to see what's written about Credentials service which "allows" or another, TRW offers their you, you are forced to pay, one way started uncovering them in 1984. In information on you when you apply, only do they charge for this, but whenever you want and find out you to see your credit report knew about these files until hackers one of us. Most people never even files on practically each and every yelling about this gress untarrass latched onto this. We've been companies to send everyone a copy requiring credit reporting they actually try to get more who's been accessing your file. Not for years now. Credit agencies have for free. It's about time the media of their credit records once a year Congress to pass legislation April 2nd when they called for latest instance of this occurred on up with an intelligent editorial. The Island Newsday, occasionally comes Our local major paper, Long

course. It gels worse. IRW now has invasion of privacy has been in the interest of accuracy, of tolerated for far too long. people who went to talk about TRW's 800 number remains for And that's only for members! hear your credit report read to you. and \$1 a minute (\$2 for the first) to \$25 to get it sent to you overnight for a fax copy of your credit report, amounts for this infermation: \$15 900 numbers that charge outrageous signing up. This blatant rip-off and

### Credit Due

reposted no inquiries had been staffer foolishly subscribes) several weeks after this occurred, know how much was owed. Yet, unauthorized look at someone's cards and retail credit cards was staffperson owed on bank credit itemization of how it should be racking up interest charges on the company. In actuality, the check TRW Credentials (to which our have looked at the credit report to credit report. After all, they had to printed, How convenient. We spent. The amount of money our Along with the check came an logo. But this time it was different. deposit the check and instantly start received a check from a credit card wonder if this doesn't constitute an in the hopes that the customer will this company does quite frequently. was an unsolicited loan, something Recently, one of our staffers

try to held onto their anonymity. And they wonder why backers

## Modern Times

to be part of that. and lack of imagination don't have obviously the goal here, monotony perfectly capable of altering the sound. While standardization is The new modern switches are busys to sound exactly the same. for all of the rings and all of the wonder though, why it is necessary now completely electronic. We that make your spine tingle. 212 is deep baritone rings or busy signals 212 area code. This means no more more crossbar central offices in the We are told that there are no

## Whose Scam Is It?

charge of \$55! calling the 540 number and, when they did, they each incorred a bunch of confused people wound up what do you think happened? A people with his \$40 number. Well, numbers and paged a whole lot of gone through an exchange of pager amounts when you call them) had rip-offs that charge outrageous number (540 numbers are generally It seems the owner of a 212-540 New York a couple of months ago. There was an interesting seam in

and keys in his phone number. As far as we know, that is not a crime. is. A person calls a bunch of pagers we fail to see what the crime here everyone with his phone number. When his number is called, an But apart from being a real sleaze, this person. He did, efter all, page proud of the fact that they caught Local law enforcement is very

> allowed to blend in with the people's money. That's where the Such exchanges should not be real crime is taking place every day. New York area is set up to take Again, no crime is being committed. The 540 exchange in the incredible charge is incurred.

Eternal Vigilance facts remain distorted and confused. work as the average citizen, the little grasp of the technology at enforcement people who have as who make out like bandits and law usual, between the phone companies exchange in one area code but not where an exchange is a premium number can result in a huge bill or in another is a flawed system. As system where simply misdicling one the charges they can receive. Any little attempt to warn consumers of The phone companies make very

a hotel room, it's probably being printed out for hotel records somewhere. This includes any and Every time you dial something from recorded. Take hotels, for instance. where what you are disling can be incredible number of situations predict the rest. There are an drug dealers and you can probably These numbers were later sold to numbers that were being used, thieves". The phones had been set turned its phones into "catting card a particular company had actually psyphones (COCOTs). It seems that New York concerns private up to record the calling card Another sleazeball operation in

all numbers you dist after calling the phone number. While most hotels won't sell your calling card numbers to drug dealers, the potential is always there. And then there's the garbage....

## Illegal Networks

According to The Economist, the German Postal Ministry (they run the phones) discovered 23 illegal private telephone networks in eastern Germany, including one formerly controlled by Stasi, the secret police. Because of a shortage of telephone times in eastern Germany, the networks will be allowed to continue operating for atleast another year.

## EFF Lawsun

On May 1st, the Electronic Frontier Foundation filed a civil suit against the United States Secret Service and others involved in the Steve Jackson Games raid of last spring (see our Spring 1990 issue to relive that measent of listory). According to EFF Staff Counsel Mike Godwin, Jackson was "an absolutely innecent man to whom a grave injustice has been done". Jackson's business was nearly driven to bankruptey, a manuscript and several computers were taken, and private electronic mail was seen through.

When asked how important it was that Jackson not be considered a backer, Godwin replied, "First, the rights we argue in this case apply to backers and non-backers alike, so it's not as if we were seeking special treatment under the law for backers. Everybody uses computers now, so the rights issues

raised by computer searches and seizures affect everyone. Second, the facts of Steve's case show how muckly the government's distinctions between hacker and non-hacker, and between criminal and non-criminal, have been Steve Jackson was never the target of a criminal investigation, yet at least one Secret Service agent told him that his GURP'S Cyberpunk book was a handbook for computer crime."

Godwin said the interests that Jackson and the EFF want to protect "derive directly from wellunderstood Constitutional principles".

We're glad to see groups like the EFF emerge and start fighting back. We encourage support for their efforts. They can be contacted at 617-864-0665. It's going to take a lot of awareness and vigilance on everyone's part to keep these injustices from occurring again and apain.

## Prodigy Invading Privacy?

Those who argue against lackers slinest invariably portray them as a threat to our privacy. "Breaking into my computer is like breaking into my flome," is a phrase heard quite often in that camp. Never mind that backers are generally uninterested in personal computers but go instead for mainframes and mini's ron by huge corporations and institutions.

We wonder what their reaction is now to the news that a huge corporation has been breaking into personal computers all over the country. Sort of,

It seems that the online service

known as Prodigy, run by IBM and Sears, has been writing a file called STAGE.DAT on its subscribers' hard drives. This file is supposed to contain information concerning the user's configuration, which screens be uses frequently, and other details designed to make his Predigy session interactive and fast. But recently, Prodigy subscribers have been dissecting their STAGE.DAT files and finding his and pieces of files that Prodigy has no business possessing - everything from personal letters to databases to directories of the personal commuter.

Many subscribers were outraged, saying they had no idea this information was in the file and demanded to briew how it got there and what Prodigy was doing with it. Prodigy and its supporters claim that it's an inherent trait of MS-DOS to put hits and pieces of previously used files in the space allocated to new files. Full directories were often included in this manner.

While it's quite likely that this is exactly what happened, we find it more than a little disturbing that Prodigy supporters are so quick to drop the issue. The implications here are downright highlening.

First off, why is it so much easier to believe the intentions of Prodigy than it is to believe the intentions of an individual exploring a wide open computer system? After all, if we move so quickly to prosecute teenagers suspected of downloading text from a huge corporation, shouldn't we be moving just as quickly when a huge corporation is suspected of downloading text from an individual? Prodigy says

they were not looking at any personal data but how do we know this for sure? Heve there been raids in this case? Seized equipment? If those actions are so important and necessary in the course of an investigation, why then haven't they occurred?

The logic is idearly flawed. The laws are only effective if they meat everyone equally. Prodigy seems to be getting a fair deal. They're able to explain exactly what they were doing and why what happened happened. They're being given the opportunity to fix their programming so personal data is no longer captured. We strongly doubt the authorities would be so fair if this was an individual accidentally gaining access to corporate secrets.

accessed. And what happens when the programming so those files were typical STAGE-DAT, they would whole lot about you. If someone as criminals? The possibilities are ability as a "high tech weapon" to catch Prodigy accounts? Might they use that people's personal files through their probably come across other file names. Prodigy were to look at the data in a someone, they can quickly find out a wide open. If you give access to bigger issue. Personal computers are lentifying - and endless. authorities realize that they can access They could then rewrite the Apart from that, there is a much

Putting faith in a commercial venture that has direct access to your computer is an act of otter foolishness. This little escapade may have at least taught people the dangers of such setups.

## Reader Feedback Time

## Same Suggestions

constant waters to highly fibra of the calles has been Ordinate on Sensity Technology. This is a colonium of Kertudy, Lettegon, KY 4000-000, phase 606-287-3343 Polisacions, Office of Engineering Services, University of covered at service time. It's an either four \$12.50 terms OBS area sogios are newested. Everything from a coveillance the artical and practical aspects of a broad range of security article absences from the armoni commence. But it the Hockers and others will also want to these out the Carrainer You may be able to find this policication at your local Legigral D. Williams' These of Reading List's electric

be there too. It fact it but it bed iden to formaging south and trace journals to employed in the article whould be at your information is out there yet earling the youth field it. six mention on so. If you disk you might find such game so your bloom for intending books, journals, and intoles every had a versity theory on go dead. Some of the books might 1965) or The Rig Boother Come by Sust France & lot of "Throning the Information Thickes" (IEEE Sycamore, Sui) Which brings up a good point many of the newsletten

type of total and the issuer. For example, 5300 is the RIN Ser based on the elgorithm in the Autumn 1980 issue. This STATE OF THE PARTY OF THE argume out there have SIN information that they work, fine to Information States, but it costs a schopping, \$195. These directory is published by the spriy ramed Freed and Their individually glouning them from people's with A BEN in they program, but I have no very of general them, which of ATRT Crisional Massauri, it is all set to behink the BD's the four (in payte 1900) digits of the and that indicate the dentification, number (2019) was also checked. The SIN is the algorithm would be a let more effective if a condit hank vertication and gardentico porgram as a HyperCard each On to another subjects I have written a credit card

agents have what the reaction on your medical death realist why such information whealth be suppressed. You have every 城市 医有种子或用的数目的 阿拉西斯的 医克勒氏病 有多多种的

Little Assetted

From Fig.'s and a 2005 Magazine, Antonio 1990. WHEN THE THE MALE BACK BRIDGE, THE CASE MER CHARLE [[id]], I just grant \$30 for a Radio Shake product than

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Sun Launche, CA

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### Observations

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Starting, NY

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## General Complaints

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Mr. Vernon, NY

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Page 26

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A Technical Explanation

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## COCOT Observations

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You can fax letters to 516-751-2608 If you have questions, thoughts, or Online letters can be mailed to comments, send them in to our Middle Island, NY 11953 2600@well.st.ca.us etters department! 2600 Letters PO Box 99

## UNITED STATES DISTRICT COURT

SOM STATE

UNITED STATES OF AMERICA. | Criming Np. 18 USC 1348

. The Grand Jury Charges:

unizability, knowingly, and intectionally did devise a scheme or artifice to delicad and obtain money by means of false or fraudulent prelenses, and did transmit or cause to be transmitted by means of false or intentions in interprets or foreign commence, signals or sounds for the purpose of executing such scheme or artifice which resulted in depriving Southern Bell Telephone and Teleproph Company.

It is the purpose of the said scheme consisted of unitring or causing to be utilized an electronic device, commonly reterred to as a "blue bea", to avoid telephone call bettings.

# unix password hacker

by The Infidel

When you're hacking a LINIX system, it's always good to have at least one spare account on hand in case you lose your current one, or in case your current permissions aren't great enough to allow you to get root necess. (I'm assuming the render has a basic understanding of the UNIX aperating system - there have been quite a few articles about the topic here in the past.)

This program automates the process of backing users' passwords. A while back, Shouting Shark wrote a similar program, but its major westnesses were that it could be easily detected by a system administrator and it could only back one user's password at a time.

Background
The theory behind this program is relatively simple. Each was has an entry in the fetopesswille, which contains the userosme, as encrypted copy of the neer's password, and some other relevant information, such as the user's id, group id, heme directory, and login process. At any rate, what's important here is the copy of the encrypted password.

One of the available system calls to the C programmer under the UMIX operating system is crypt'). Built into every UMIX hernel is a data encryption algorithm, based on the DES cocryption method. When a user enters the 'password' command to change his password (or when the system administrator essigns a new user a password), the crypt's the selected password and places a copy of it into the file lett/password, which is then referred to whenever a user tries to by in to the system.

Now, the standard UNIX password is somewhere between 1-8 characters long (various versions, such as Ultrix, allow much longer passwords). If you wrote a program that would sequentially try every possible lowerease character sequence, it would take about 8\*10\*93

attempts, which translates into a little ever a million years per complete password hack per user. And that was just lowerease letters....

publices to work. /eta/pasewid to order for the available user every user must have read access to got aff the lewipassed file. By the way, passweres of our target users, which we it, and compare it against the encrypted user has read across to this file, our located at Assidict/words. Since every containing upwards of \$6,000 entries, checker, with a database usually passwords. These are certainly not unassuming users are pretty careless and to be a better way to do this - and there from the database, one at a time, encrypt program will simply read each word in UNIX package comes with a spelling (However, something like Urêdent! ar worthy of a million year back attempt. keyboard - very simple to crack being used by people for passwards: naive. You'd be surprised what I've found lamelite might be.) Lucky for us, every radical, Joahua, computer, password, Since I can't wait that long, there has For the most part, average,

New some system administrators reading this may just lack out read access to the colline dictionary, or simply zenove it from the system. Fine, Probably everyone reading this has access to a spelling checker they use for their word processor at home. Since many use simple ASCII text files as their database, you can simply uplead your spelling checker database to your UNIX site and easily modify the password hecker's "dad" variable to use this new database instead of the default. The format of the database is simple: there must be only one word purlice.

Using the Password Hucker

This program is very simple to use.

I've tried to use standard C code so there would be no compatibility problems from system to system. Obviously, I haven't

rested it on every version of UNIX available, but you shouldn't really have any problems. This program nobups itself, meaning that even eller you less off the system, it will continue to run in the background until completion. On some terminal configurations, this method of nohuping may lock up the terminal after logout until Uhacker is done. On these systems, just remove the line in the source and nohup it manually arrun it off of the C shell.

To compile the program, simply

ce -o sort Uhacker.c

and within a helf minute or so, you should have a working copy enline damed "sort". That way, when you run this progress, it will look to the system administrator that you're just running some kind of lame sorting progress, which of course, you named "sort", like all good first year computer science

you. You can hit control-e to about valid user, the program will tell back, one at a time. If it's not a enter each username you wish to you've entered all the usernames out of it at any time before you majors do. while the progress backs away. The and gives you your original shell background process' id number background, the program then jumps into the rate, when the batch is complete, easily make it accept more. At any being backed at a time, but you can defaults to a maximum of ten users as the finel username. The program you wish to hack, simply enter "q" terminate the batch entry. After background, just type "kill -9 xxx". quickly, after it's in running Uhacker. If you have to whatever it was you were doing, back. That way, you can go on with terminate the Uhacker very for the background process now Number:" is the process id number and mun Uhacker will prompt you to output as "Process 8104100 170

where xxx is that process number.

When it's done, the program will send its output to the file ".newere", a standard file that's convergone's directory and will attract no attention. By running the program with the -d option (sort -d), it will run in debugging mode, in case you don't think things are working right. Again, newere will tell you what's going on.

someone reads the newere file, can get caught using this is if accounting logs. The only way you any process lists or command dictionary file names will appear in It to give it away. No usernames or run and call back later to pick up not kill it either, eo you can let il Logging out of your account will can terminate it once it's started. the process, so only a kill command the source code online. Typing an innocent file, so no one would program has finished. But this is which is written to only after the know what you are doing, even if nosy system administrator can fatal interrupts are locked out from was with security in mind. Nonhave execute access to the pregram, look at it enyway. Also, don't leave himself, because there's no text in he tries running the program the results. There is no way any from running it. but still won't keep the superuser to keep nasy users away from it, "chmed 100 sort" will allow you to When I wrote this progreso, it

So how long does this take? On a VAX, running with only five or so users, with a light load, it will take approximately ten minutes per username you've entered into the batch. With a heavy load (20+ users, load average greater than 3.00), it can take up to an hour per username in the batch. You'll really just have to experiment and see how things work on your system, Have fun!

lor (l=f; i < f1; ++1)

printf(" 核彩点:", Us

printl ("Enter input. Terminate batch with a 'q'/n'');

\* UNIX Batch Password Hacker: Uhocker.c

\* Written By The Infidel, BOYWare Productions, 1991

\*/
#include caldio.hs
#include cpwd.hs
#include ceignal.hs

sirvet peci

cher nam[16];
cher nam[16];
cher opwd[20];
};
struct passwd "pwd;
int i, batche, count, tlag;
cher "pw, dictwd[20];
static cher dicti] = "userdictwords";
static cher date[] = "newsro";

int endpwerd(); /\* Close /etc:pseswd file \*/ cher \*strepy(), \*coypt(), \*getpass(), \*getlogin();

Not needed by all UNIX C compilers \*:

:[]emenwideg, pwssed tours

char argvilla Int ergo: main(argo, argv) If ((ofp = topen(data, "w")) == NULL) ( FILE "fopen(), "ifp, "ofp; If  $((llp = topen(dlct, "r")) == NULL) {$ 中(199 == 2)个 struct acct user[11]; printi("Unable to open data file/in/n"); If (Vistramp(argv[1], "-d"))) **经营工** print(;"Invalid source file.\n\n"); 250 1 = Bell east (-1); printf ("incorrect usage.\n");

```
signal (SIGOUT, 5I6_KSN);/* Lock out cit*: quit signal */
signal (SIGHUP, 5KG_KSN);/* if terminal locks up after logout, delete this
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10 == 1) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          signal (SiGtNT, SiG_IGN); /* Child now in background. Lock out interrupts */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          l=lock(); /* Create a child process to do the scanning **
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                  else (printf(elp, "Job completed.inin");
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          exit (0); /* Terminate the parent process to give up our shell back */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        printf ("nProcess Number: %dnin", i);
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## The Sequel

TEXAS DEPARTMENT OF CRIMENAL JUSTICE

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"2500 Magazine" Fall 1990 W7 H3

The Director's Review Committee has rendered the following decision regarding your publication:

- The NSSP decision not to allow you to receive the above publication has been reversed. You may expect to receive the publication shortly.
- fixt The MSCP decision not be allow you to receive the above publication has been upheld.
- f) The publication will be cificed. Page [5]
- [32] The publication will not be olipped.
- The publication contains contraband item(s).
   The contraband with be removed.

cc: Unit Mailroom 2600 Enterprises file

Yes, the appeal has been denied. Our entire Fall 1990 issue has been deemed unfit for Texas prisoners. (Part 1 of this saga can be found on page 42 of our Winter issue.)

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This program was written by Kevin Mintick a few years ago, it allows semi-privileged operators to spag passwords off the disk and decrypt them. Ordinarily, only the assensante of DIRMAIN would te able to look up passwoods. This program will work on CMS 3.0.

looking up ibm passwords

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## Internet Outdials

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can remotely gornect to through the internet and methods. There are drawbacks though. First, charges or help get us into topuble for other calls that might otherwise root us long distance Obviously, this allows us to make free and legal use to make calls to the outside phone net have a noticeable delay in your response time. since you are going through the nets, you will There is also the problem of connections being Outdials put simply, are moderns that you

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monitor waiting for your data to arrive. Keep this in mind as you sit in front of your drawbeeks, the delay will be the most annoying. halted and even disconnected. Of these

How To Do It

commands: above, you simple type the following riegin at other sites. If you have access to the have a way to access teleat, tip, or he still to In order to seach the outdists, you must

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Page 40

## The New LEC Order Acronym City

As general sheward movements of by New Hack City

communications network, it is clear that circuits, but ausbaner loop plant "lines" so well) intereffice accesses tranks and special services traffic, but ready to support more than the enjulies are more ready to not only early more the traditional, already-entaring telethe LECs + 15C's. Featiling on the changes to telephenemications companies to roady signalling on a fiber optic cable, redio wave. private/public carriers using CCS0 (CCIS) digital, matri-channel (using FDM and TDM). using MY signalling on a copper wire into analog, single channel, public message trucks interrelise circuits have notanorphicized from the LEC, and not only switches have charged allow better administration of themselves by date economications and high traffic, but that that not only support multi-channel digital service, becoming software-driven structures "eleguit" (by circuit I mean not only LEC traditional analog valuelone channel per themselves for ISON has been revolutionizing the DOV 1800% line. customer lines are being multiplexed, each as microwave, or even a satisfate. Even large plans

and COSMOS, forcing MUMANC personnel to not apocial versions circuits) and other only translate the RC service order for the orders' are often unprocessable by both MIZAR services be done. Complicated "RC services technology, and only through intensive and keep records on these new switches. use the same facilities to provision, operate, record-keeping of these new technological manpower can provisioning, operating, and etc.). Many OSS's cannot handle this new telecomentations equipment (plog-in, DACS) "elregita" (lines, public message tracks, and epecific switch (and switch version), but to . It's obvious that USC's cannot suctione to

etc.) to: Send submissions 2500 Needs Writers! 2600 Editorial Dept (articles, clippings PO Box 99 Aiddle Island, NY

> enter the manually translated SC service for the service to be implemented. other backlogged, evalving them were for menths loop carrier systems, foreing LMC to complete difficult-to-process service orders for digital LEACS is another legged down system with orders into the specific switch...manually: being med, but outlooser unless for service soo the order. Not only is the exceeding extrapower

restructures, and "updates" the 1,80 system eagineeriog/planning brain, or updating a which is done at the core of the BELLANGE BRILLOORE, straying other things, mechanists, engineering and planning, provisioning, and database, into three separate modules: and centructuring can be seen to TIRKS communicatives with FICS recently as well; mechanized as TIRKS has sutemated designing new circults as well; TERKS's CIMAP all circuits on its "distribuse" but it is a soot for details hind of thing shat BELLCORE does). specific part of the network, any updating an network at large by adding new systems -("Update" has two meanings - updating the gystem is becoming divided into these three its own database. Actually, the entire LEO operations (the CINAS module), each having modele kinds of circuits, for it not only keeps track of action: TIRES is abroadly updated on the new will three of these BKIJJCORE functions in newly invented circuits a which is more of a 088 to include knowledge of the latest back of and granucias; parts (engineering and planning, provisioning, restructuring from one large OSS with one Just Gillastog one OSS, way TIRKS, one non acc Which is where BELLCORE comes inhas SSCCO communications

greats become less things added when traffic services directly problemate (they now account integrating FACS and TIRKS. As special been goswing at it since its inteption: for half of interoffice clientes), interoffice from customer service orders instead of encuite), and this information is all sent to TIRKS increasingly needs information from between two awitabes grows, and more things provisioning requests coming more and more IIRKS...manually. So besides circuit that TIRKS can design special services FACE (Information about the loop resistory so Another reason for the integration is that FACS and TIRES begins to make sense that are provisioned from service orders almost like a Bos...in this situation integrating BELLICOSE has had a pet project that has

> switch, and circuit provisioners to provision coordination is needed between the loop plant suggestions by traffic analysing bareaus, main involved to the special services circuit special vervices effectively, since all three are

new services to offer customers, and the The examination of the service, planning of 18%. Operation of the services is run by 02% customer requests für secrice are bundled by occasion. The "new order" is fairly obvious: SOAC, or CRSAB interrelated with SSC on each other, just so TERKS interrelated with The EPS, OPS, and IPS will interrelate with Beginsering and Planning, and Operations the idea that the Integrated Provisioning below. One aboutd remember, however, that TISKS, and a new ChS that I will describe umbrolla are SOAC, LFACS, MIZAR, parts of Some systems that will fall under 198's equipment and facilities to provide a semine under, 198's responsibility is to assign the FACS/TIRKS in agention would come about Integrated Provisioning System 18% is what switching placeting systems. IPS stands for systems, inter-office planning systems, and network by integrating distribution planning and engineers the USO telenommunications (Engineering and Flanning System) designs be under the umbrella of OFS. EFS maintaining, and "tiking" services/service responsible for installing, testing, monitoring, interesting circuits (SSC, NTEC, and SARTS for ODD), plug-in equipment (PICS), and networks lines (LMOS, MUT, CRAS, CRSAR), the different parts of the televeramunications eyatent is convertly basically sub-daylded into the re-obtaining of the USO system. The Little technological division's master plan for USC's is network, the very care of BELLCORE's nicehanizing, and restructuring of the overall engineering of these over services is handled by Process systems are self-enclosed is a follocy OSS's such as SASTS, LMOS, and CASOT will éguipenent in the lefacturenueléstions network. for Operations Process System. ORS is three systems: OfS, EPS, and IfS. OfS stands officestharestastesters and OSSs fall under Resolutions of the time parent will make all types of intereffice strenit). The BELLCORE public message trunks; and TIRKS for both special services circuits; CAROT and CTTU for MDF (COSMOS), switch [MISAR, SCCS The regin BELLCORE plan in its updating

because of CC18, multiplexing, and intelligent and EPS is going to have a large effect on 1.50 happening because of the more towards ISDN. operations us we know them today. It is The LEC's new subdivision into IPS, OPS

> enormous implications on the future telegamentabations betweek because the line really what has revolutionized the LEC services circuit. The special services oftenit is SEU electronic switches. But really, the key Riesantianos/soca and intending trank came together to form one figure in this change has been the special "circuit". This redeficing of what is einstiff is loss

### HOLLERS

SECOND IN WOLL will keep track of and assign equipment on the line and trank side of a winconten. SWITCH equipment and facilities for a service. SWITCH orders by automatically assigning LEG aim of IPS, to allow flow-through prevening of created by BEELCORE to belp accomplish the will also bely the provisioning process in other SWITCH is a new service provisioning OSS

up to the second version. the conseption of SWITCH to its development the line side of the sine energy. Let be take a etc.) will only except make offersign facilities on 1 collectively... Versino 1.0, 1.5, 1.7, 1.84758 (Version I meaning all sub-versions of Version out into two "phases". Version 1 of SWHTCH switching betwork, SWITCH development is will do, integrating wereceases facility but at the "history" of SWIICH, sterling with provisioning on the line and trurk side of the Decays of the enormity of what SWITCO

extension of the trunk and like sides of the SCHOOL CASSO. out was a bit exerenthusizance timeoriginal schedule of when the versions would be (Perhaps meedless to say, BEULCORE's the design of Yerston I.O was completed. wirecenter, thus an extension of the "awitch"), SWITCH (so named because it was development of the system that would be walked technologies, euros abaut. After two years of help ricet the growing demand for these new wirecenter, which would, through lategration, that previsioned for both eides of the provisioning of new technologies and services. system, especially in the area of a wirecenter planning of the LEC system for both the line and struck side of the naturals. In late 1987, provisioning, operations, engineering, and JES/OPS/EES system, which integrated the BELLCORE and had the idea of the From this study, the enginestion of a system BRILLOOMS did a detailed study of the LEC As stated in the previous section,

COSMOS. In Version 1.0, SWITCH will have the ability to take over half of COSSCOS provides for the time side of the wirecenters everyane is aware of the OSS that entreacts for the line side of the wirecenter. Of recurse, Version 1 of SWITCE provisions exclusively

System is the sub-system of SWITCH that will occuration and separation of cable pairs from from COSMOS. FOMS will deal with the along with SWITCH and is not a Jellywar piece The FOMS sub-system of SWITCH was created TIRKS i.e., FOMS is almost a separate OSS MOTE FOR SET IN SECTION OF CHARGES OF deal with the management of work on the FOXS, Frame Operations Management

outside plant part of the service order, i.e., station protector to cable variationality the MDF SWITCH the order, LFACS provides for the done before, the only difference with SWITCH NO mossage. This is how a line provision was attack the lines OP to OSL SWITCH also words SWITCH gives the order to its FOMS eventually reach the SOP (SOP was the system Office would have, the service order would office, giving any details needed (standard line Version 1 being that POMS replaces OCSMOS enters the service order into the switch as an the service order to MIZAR via SOAD, MIZAR subspeten for framework via SOAC, FOMS will and switch elements must be provided for provisioner for the outside loop plant) and SOAC would send LFACS (LFACS in the would forward the service order to SOAC. which service unders entered FACS with; SOF Throughout whatever aystem the Business or ISDN 1, call waiting - yes/ne? etc.). in his request for a new time to the business provisioning process? A sustainer would jihune lion would SVITCH work in the line

or "responsible" for rewarking this order, changes midway, SWIFEH can simply rework more flexible than COSMOS, If an order the order as necessary. Shifted is to charge." is peopling in this situation, SHITCH is much wrote about when an order is changed while it ever the provisioning process. The control SOAC? Because SWITCH has more "control" and even Fibble (its own will rejettern) these was With the SWITCH's connections to Minary

> of the wirecenter to allow this flexibility to detailed records of all the line-side equipment schedule 'pales', SWITCH most also have for orders. Obviously, besides these order entwify due to its isomble time schedule "piles"

assigning and reassigning facilities. SWITCH Version LO was "implemented"

"tenglementation". Stage one is Previsioning On-size Verification Testing (FOVI), FOVI orders to SWITCH to see if SWITCH processes SWITCH with the pre-calculated correct to SETTIE and then vertices the reside from sends pecodo-orders, sreated by BELLCORD order data, but never connects with SOAC. SWITCH is still not advanly connecting with a orders cornerly. Though the orders are real, Tosting (NPVI). NEVI sends real contomer "implementation" is Nature 1934 Verification resplac. located in the wirecenter, and gets service permat switching network. Switch Version 1.0 is SWITCH Vection I-O never monests with the Long Branch, New Jersey (Bell Atlantic) and the other in Cahaba Heights, Alabama during Desember of 1989 in two (30% - one in There are two stages of Version 1.0 (Belifooth) Implemented is in quotes because Stage 2, Version

Sold at ISDN.

expected to be implemented in mid-1891. a few more bugs weeded out, etc. Version 1.5 is 596 JCH will need a few more typicites entered, POV and NPV noting their place in. OXSMOS will become a part of the service provisioning textern. This "seek" verstor, will be NEW testing. Through SOAC, SWITCH Version equipment SWITCH Version 1.5 will contain SWITCH is actually encounted with real will not be totally out of the picture yet because implemented in the same two wirecenters that kyalem. I.E will contained with LEACH and SHEACH, and the need to realize from the results of POY and whatever modifications that BELLCORE felt SWITCH Version 1.5 will be the first time

expected. The RINE's most interested in it, are Noney, Facific Bell, and BeltSouth. SWITCH, and most interested in implementing amplementation/COSMOS annihitation is procordous). By late 1892 mega-SWITCH in late 1991 ("prejected" date - protty of SWITCH will be made evaluable for LWC use SWITCH wall get rid of COSMOS. Version 1.7 COSMOS recally, i.e., those who implement changes that came about during the Version that SWITCH in Version 1.7 can deal without 1.5 "seals". The most major of changes will be SWITCH Version 1.7 will contain major

provision for the trunk side as well. As SWITCH replaced COSMOS for the saids provision for the line side of the network, it will Version 2 of SWITCH will not early

> some faxo the network planning/trunk traffic line frame slots in response to orders (that entition of the LECL just as SWITCH assigned IAS/GIAS. But now SWITCH will assign provisioning at the CO was dependent on trunk side of the network, and trunk France" (I use this phrase virtually) on the medules that assigned tounks to the "track (Bearn's TAS), TAS and OTAS were TIRKS was discuss Administration Systems and Cities the current trunk-side wiresenter provisioner(s) windows provisioning, so SHITCH replaces Frank frame state" in response to "orders" (then

time it will not be in test made but in working mode. Implementation of SWITCH Version 1.5 will accually be provisioning for orders and will I said, Version 1.5 is the first time SWITCH explanation of the two versions of SWITCH. As so off, they're not making any promises as of distinction of when Version I would be out was distribution), And since BELLCORE's time issue of 2600 by serveral environshould coisaide with the distribution of this actually be booked up to SOAC i.e., the first when Version 2 will be distributed. That's so ayeten, system after modifications made from testing with real data, initial real usage of the Testing will revolve around the same thees: between line and trunk provisioning in the paperned with line provisioning, this expended concerned with tean's provisioning and FACS is related to SWITCH ways, Since TIRES is later versions of SWITCH, as well as nontrack order fully. I should make it clear that arder to other 058%/cffice's to complete the wandling previous testing (and ready for initial "parallel" testing with test data, "parallel" to the 2 sites Version 1 leading task place injest like version 1. The weing will take place fature. EWITCH version 2 will analogy being teterface will mean more of a connection TIRES through NOAC. Then TIRES sends the then returns the completed assignment to a space for the trank on the "trank trank" and and through SOMO, SWITCH, SWITCH weight carrier to be placed between offices, the first provisioning is just part of an overall effect "PACS" monnection will expend pressly within this Version 2 connection between TIRKS and thing TIRKS does is communicate with SOAC, trafficiplianning bureau for a new trunk or When TIPES gets an "order" from the trust will be a HIKKS-SOAC-SWITCH manerakyn. anderway of revising trank provisioning. These сылж ілып селістнегы) "FACS" is gost a taken one, and the TISKS! The entrance of SWITCH into trunk

Services each telephone number has (883F, database for telephone numbers and the The Business Office will use SWITCH as a

second side of "provisioning". Of course, SHITCH's provisioning process so far, assignment has been the only part of more theoretically contracts point out the OSCA DES planting we finally have one) but receiving. "Contracts" are fundamentally to Speed Calling, etc.). This information will be reals SWITCH an OSCA system (after all this contracts with SWITCH for information service will have their own separate software that are connected with provisioning contenter software contract Other seasons (and OSSN) provided through the Statemen Office SwiffCH

SWITCH connects to LEACS, MIZAR, SOAC (and through TIRKS via SOAC), to (in Versions 1 and 2) is SOAC. But through (trunk and line side) is a consenstage of 1986. of connecting all the provisioning systems FUTIERKS, CIMAP, and even CAROT, The idea "The only system EWITCH setually connecte

SWITCH fulfilled is second provisioning duty. assignments. Through these contracts, towertery, or simply keeping track of the assignment of line and tronk frame "clop,"

However, enother hig part of provisioning is

complex order for a new digital service easier. person who would manually complete a from SWITCH's database, to make life for the at least partially completed with information better than COSMOS and GTAS/TAS in that if an order cannot be excepteded by SMITCH, it is One of SHITOH's features that make it

one). SWITCH just reworks the order and change in facilities (make that two lines; sot (push the installation from \$18 to \$30) or a change can cange frach a choogo in duc data provisioning process with SWITCH. An order change an order midway through the (So the LEC's, not the backer) is its fleathlity pertaining to pending work. It's "no perfo" to Perhaps the coolest thing about SWITCH

We just discovered an to anyone else could Your faxes to us and since been clipped.) line and heading up attached to our fax the pole. (They've extra set of wires Our fax line is: be monitored. 516-751-2608

that's that, no mess, no flow. And SWITCH reworks as order in the most cost-off-gent way

hacker on an OSS on the first day the OSS is a writCld. It would be rather amusing to have a right at the time this issue somes out (in the etc. However, SWETCH 1.5 will be implemented base trechemics of SWITCH legan, commander slew". For that reason, we do not go into the PSNJ, this article is a "pre-view", not a "re-(never midd a bode im a Datakit YCS or a ROC until two months past this article's deadline to any OSS's or even any actual equipment compaints. Since SWITCH won't be booked up will be reaming on 1524 compatible mathitame Ed Atlantic and BellSouth officer previously -- Ganed), so you will be able to hack into I suppose I should tell you that SWETCH

controls the whole examped CO from cable form MIZAR, LFACS, and TIEKS. So basically if a Tridepot one has a route to an ECC's CSS. On "NUA profix" with case, and thus through are a popular thing newsdays. One who IFSWESOPS mean for hardwar? Well, "notice" backer controls SMITCH and the switch, be for hankers, SWITCH one cours to SOAC, "controls" Telerat can access a ROC's private the earne taken, SECTOB will provide route So in the end, what will SWITCH and

importance, if the way the Model system we not only provisions, it keeps records of the and special services circuits respectfully. IPS ever trunks separate of the datavoice signal, they are special services circuits. But with important without \$600 Ha athletics, unless correctly have changes as well (i.e., from knowledge of LEC trucks will grow in would be good for the databases Lafter all, IPS and SASTS can accently take control of lines the greatest switten among hackers, for EMOS perhaps the importance of trucks will increase makework much the exclusion begin to notice calls COIS and ISON signating, when the switching trunks at the CO. Novedaye trunks aren't apecial services riscuits) containing "can't get to" areas - hardwining and NEWNXXXXXX to a more complicated system provisions as well. Perhaps in the future, Of course, and blocally, the OFS systems hald SWIFCH Version 2 provintees message

CAROT: Centralized Actionate Separtical On Tourier. BELLCORE: BELL Communication BEwerth This CRS meralians message through for broadle and SOFT TOP SOF

COR: Comman Charact Integetion Signatting: A type of teach significant where the signal and the routing are separated. and alerte behaviours.

長以前一分では下ので、前の中国の

CDQAP: Circuit Installation and Maintenance

CO: Dentral Office - The office where the customer Appropriate Contraction

COSMOS CORPORT System for Marchage Operations - Old OSB that used to province for companies with the mattering reliable.

COLONE BUT AND MINES line service areas a by connecting OB to OF.

CRAS: Cable Japain Administrative System

03845: Outcelled Bigst Service Annualing Bussia. Office Georgi Shank Das Dalo. DOM: Held Chan Voice. DACE Digital Access and Consecutated System.

1996 Performing and Planting System.

5002 Street Operations Management System. FUM: Requester Division Multiplesing. を分析を対 A の名詞の田 から を建むるのの名文文 that used to provide the authorse has online.

[JUM: International Business Michigan CTAS. Coperty Truck Administration System.

IPS: Integrated Previousing System. SSDN integrated Services Digital Network. EO Exer Exchange Carrier.

1.840% Loop Partition Assignment and Control QXO Local Exchange Currier. A suggesty, sometimes a BOC, that oversees one or more LATA's in an area.

NEXTER for first and New Regulations of the Personal MLT: Method (Self Vandantion Teating) 1.3/Ode 3 oop Mainkoutste Operation System. NORCH NEGOCK TO THESE KINDS PARTY CHARLES MINAR Lindblooks in the wind -**出版 本の生物を見るが** Matter Wain Distributing Method. yould and X impresenting the unknown and unfield, feature of the beappointing submention market and the furtherable grazility" of the 1999 retreets.

OR: Office Equipment - Drightstone Studented - E COD, Office Dependant Date. fine's location on the MDF.

Once Operations Support System - a compaint system. COT Contacting Truck - where trunks have the CO. OPR: Operations Protess System.

BOO: Boglanal Operating Company - North, NUMBER OF SERVED CHANGE METATY Administration Pich Rupin Inschool Control System. BOST DE ROSE CELEBORISANTA Mil Seech Change TOX: Bucket Saik bing Salmork. POTT Province on the Contractor Section 0560 by a 1400 or 1500 to median me operations.

SCOT Service Collect Mexical Con-SUXUS: Switching Control Coalest System SARTS, Switched Syries Person Test System. THOOSE Trunks Lategraped Booked Rooging System. SPC: Sweed Progroup Conemi: SOMO: Service Open Analysis and Departs 1238. The Division Mainly wing. THE TYPE INCIDENTIAL PROPERTY. Americado, Bell South, CS Week, etc. Where he was not from the Off ... We go wer to blow in the wind ...

Openial Matrix to Direct in Parkey. With Minter through the Late 日本ののでは、このは、こののでは、からなった。 This materi controls almost every depart of

# BAD NEWS SECTION

rates for back issues or for overseas subscribers. We also have kept our sure 2500 remains obtainable to as many of you as position. Composate rates have gone up by a smaller percentage. We thaten't raised the Our recent 40% increase in postal fees, though, made it impossible to wait any newsettend price discounted. The reason for this is because we want to make possible. Our individual sales have been raised by \$5 or her per year. longes. We we made an effort to keep this incresse as non-dremetto as Well, here it is. We cred to postpone our rate biferior as long as possible

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